
Triple Play Multicast Command Reference

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MCAST Mangement Commands

```

config
— mcast-management
  — bandwidth-policy policy-name [create]
  — no bandwidth-policy policy-name
    — admin-bw-threshold kilo-bits-per-second
    — no admin-bw-threshold
    — ancillary-path
      — path-limit megabits-per-second
      — no path-limit
      — queue-parameters
        — cbs percentage
        — no cbs
        — hi-priority-only percent-of-mbs
        — no hi-priority-only
        — mbs percentage
        — no mbs
    — description description
    — no description
    — falling-percent-reset percent-of-highest
    — no falling-percent-reset
    — mcast-pool percent-of-total percent-of-buffers resv-cbs percent-of-pool slope-policy policy-name
    — no mcast-pool
  — chassis-level
    — [no] mmrp-impm-override
    — [no] per-mcast-plane-capacity
      — mcast-capacity primary-percentage secondary secondary-percentage
      — no mcast-capacity

```

- **redundant-mcast-capacity** *primary-percentage secondary secondary-percentage*
- **no redundant-mcast-capacity**
- **total-capacity** *capacity*
- **no total-capacity**
- **[no] round-robin-inactive-records**
- **mcast-reporting-dest** *mcast-reporting-dest-name* [**create**]
- **no mcast-reporting-dest** *mcast-reporting-dest-name*
 - **description** *description*
 - **no description**
 - **dest-ip-address** *ip-address*
 - **no dest-ip-address**
 - **max-tx-delay** *delay*
 - **no max-tx-delay**
 - **udp-dst-port** *port*
 - **no udp-dst-port**
 - **[no] shutdown**

Multicast Info Policy Bundle Commands

```

config
  — mcast-management
    — multicast-info-policy policy-name [create]
    — no multicast-info-policy policy-name
      — bundle bundle-name [create]
      — no bundle bundle-name
        — admin-bw kbps
        — no admin-bw
        — bw-activity {use-admin-bw|dynamic [falling-delay seconds]} [black-hole-rate kbps]
        — no bw-activity
        — channel ip-address [ip-address] [create]
        — no channel ip-address [ip-address]
          — admin-bw kbps
          — no admin-bw
          — bw-activity {use-admin-bw|dynamic [falling-delay seconds]} [black-hole-rate kbps]
          — no bw-activity
          — explicit-sf-path {primary | secondary | ancillary}
          — no explicit-sf-path
          — keepalive-override keepalive-timer
          — no keepalive-override
          — preference preference-level
          — no preference
          — primary-tunnel-interface {rsvp-p2mp | ldp-p2mp p2mp-id} lsp-name sender ip-address
          — no primary-tunnel-interface
          — source-override ip-address [create]
          — no source-override ip-address
            — admin-bw kbps
            — no admin-bw
            — bw-activity {use-admin-bw|dynamic [falling-delay seconds]} [black-hole-rate kbps]
            — no bw-activity
            — cac-type {mandatory | optional}
            — no cac-type
            — explicit-sf-path {primary | secondary | ancillary}
            — no explicit-sf-path
            — keepalive-override keepalive-timer
            — no keepalive-override
            — preference preference-level
            — no preference
            — primary-tunnel-interface {rsvp-p2mp lsp-name | ldp-p2mp p2mp-id} sender ip-address
            — no primary-tunnel-interface
          — congestion-priority-threshold preference-level
          — no congestion-priority-threshold
          — description description
          — no description
          — ecmp-opt-threshold preference-level
          — no ecmp-opt-threshold

```

- **explicit-sf-path** {primary | secondary | ancillary}
- **no explicit-sf-path**
- **keepalive-override** *keepalive-timer*
- **no keepalive-override**
- **preference** *preference-level*
- **no preference**
- **primary-tunnel-interface** {rsvp-p2mp *lsp-name* | ldp-p2mp *p2mp-id*} **sender** *ip-address*
- **no primary-tunnel-interface**
- **description** *description-string*
- **no description**

Refer to the 7750 SR OS Interface Configuration Guide for command descriptions.

config

- **card**
 - **fp** [*fp-number*]
 - **ingress**
 - **multicast-path-management**
 - **bandwidth-policy** *policy-name*
 - **no bandwidth-policy**
 - [no] **shutdown**
- **mda**
 - **ingress**
 - **multicast-path-management**
 - **ancillary-override**
 - **path-limit** *megabits-per-second*
 - **no path-limit**
 - **bandwidth-policy** *policy-name*
 - **no bandwidth-policy**
 - **primary-override**
 - **path-limit** *megabits-per-second*
 - **no path-limit**
 - **secondary-override**
 - **path-limit** *megabits-per-second*
 - **no path-limit**
 - [no] **shutdown**

Triple Play Multicast Service Commands

```

config
  — service
    — [no] vpls service-id [customer customer-id] [vpn vpn-id] [m-vpls]
      — igmp-snooping
        — mvr
          — description description-string
          — no description
          — group-policy policy-name
          — no group-policy
          — [no] shutdown
          — query-interval seconds
          — no query-interval
          — query-src-ip ipv6-address
          — no query-src-ip
          — report-src-ip ipv6-address
          — no report-src-ip
          — robust-count robust-count
          — no robust-count
          — [no] shutdown
        — fdb-table-high-wmark high-water-mark
        — no fdb-table-high-wmark
        — fdb-table-low-wmark low-water-mark
        — no fdb-table-low-wmark
        — fdb-table-size table-size
        — no fdb-table-size
      — mld-snooping
        — mvr
          — description description-string
          — no description
          — group-policy policy-name
          — no group-policy
          — [no] shutdown
          — query-interval seconds
          — no query-interval
          — query-src-ip ipv6-address
          — no query-src-ip
          — report-src-ip ipv6-address
          — no report-src-ip
          — robust-count robust-count
          — no robust-count
          — [no] shutdown
        — multicast-info-policy policy-name
        — no multicast-info-policy
        — sap sap-id [split-horizon-group group-name]
        — no sap sap-id
          — igmp-snooping
            — [no] fast-leave
            — import policy-name
            — no import
            — last-member-query-interval interval
            — no last-member-query-interval

```

- **max-num-groups** *max-num-groups*
- **no max-num-groups**
- **[no] mrouter-port**
- **mvr**
 - **from-vpls** *vpls-id*
 - **no from-vpls**
 - **to-sap** *sap-id*
 - **no to-sap**
- **query-interval** *interval*
- **no query-interval**
- **query-response-interval** *interval*
- **no query-response-interval**
- **robust-count** *count*
- **no robust-count**
- **[no] send-queries**
- **static**
 - **[no] group** *group-address*
 - **[no] source** *ip-addr*
 - **[no] starg**
- **mesh-sdp** *sdp-id[:vc-id]* [**vc-type** {**ether** | **vlan** | **vpls**}]
- **no mesh-sdp** *sdp-id[:vc-id]*
 - **igmp-snooping**
 - **[no] fast-leave**
 - **import** *policy-name*
 - **no import**
 - **last-member-query-interval** *interval*
 - **no last-member-query-interval**
 - **max-num-groups** *max-num-groups*
 - **no max-num-groups**
 - **mcaac**
 - **policy** *policy-name*
 - **no policy**
 - **unconstrained-bw** *bandwidth* **mandatory-bw** *mandatory-bw*
 - **no unconstrained-bw**
 - **query-interval** *interval*
 - **no query-interval**
 - **query-response-interval** *interval*
 - **no query-response-interval**
 - **robust-count** *count*
 - **no robust-count**
 - **[no] send-queries**
 - **static**
 - **[no] group** *group-address*
 - **[no] source** *ip-addr*
 - **[no] starg**
 - **mld-snooping**
 - **[no] disable-router-alert-check**
 - **[no] fast-leave**
 - **import** *policy-name*
 - **no import**
 - **last-member-query-interval** *interval*
 - **no last-member-query-interval**
 - **max-num-groups** *max-num-groups*
 - **no max-num-groups**

- **mvr**
 - **fast-leave** *service-id*
 - **no fast-leave**
 - **to-sap** *sap-id*
 - **no to-sap**
- **query-interval** *seconds*
- **no query-interval**
- **query-response-interval** *seconds*
- **no query-response-interval**
- **robust-count** *robust-count*
- **no robust-count**
- **[no] send-queries**
- **spoke-sdp** *sdp-id[:vc-id]* [**vc-type** {**ether** | **vlan** | **vpls**}] [**split-horizon-group** *group-name*]
- **no spoke-sdp** *sdp-id[:vc-id]*
 - **igmp-snooping**
 - **[no] fast-leave**
 - **import** *policy-name*
 - **no import**
 - **last-member-query-interval** *interval*
 - **no last-member-query-interval**
 - **max-num-groups** *max-num-groups*
 - **no max-num-groups**
 - **query-interval** *interval*
 - **no query-interval**
 - **query-response-interval** *interval*
 - **no query-response-interval**
 - **robust-count** *count*
 - **no robust-count**
 - **[no] send-queries**
 - **static**
 - **[no] group** *group-address*
 - **[no] source** *ip-addr*
 - **[no] starg**
- **mvr**
 - **fast-leave** *service-id*
 - **no fast-leave**
 - **to-sap** *sap-id*
 - **no to-sap**
- **query-interval** *seconds*
- **no query-interval**
- **query-response-interval** *seconds*
- **no query-response-interval**
- **robust-count** *robust-count*
- **no robust-count**
- **[no] send-queries**

Ingress Multicast Path Management Commands

```

config
  — mcast-management
    — bandwidth-policy policy-name [create]
    — no bandwidth-policy policy-name
      — admin-bw-threshold kilo-bits-per-second
      — no admin-bw-threshold
      — ancillary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
      — description description-string
      — no description
      — falling-percent-reset percent-of-highest
      — no falling-percent-reset
      — mcast-pool percent-of-total percent-of-buffers resv-cbs percent-of-pool slope-policy policy-name
      — no mcast-pool
      — primary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
      — secondary-path
        — path-limit megabits-per-second
        — no path-limit
        — queue-parameters
          — cbs percentage
          — no cbs
          — hi-priority-only percent-of-mbs
          — no hi-priority-only
          — mbs percentage
          — no mbs
      — t2-paths
        — primary-path
          — queue-parameters
            — cbs percentage
            — no cbs
            — hi-priority-only percent-of-mbs
            — no hi-priority-only
            — mbs percentage
            — no mbs
          — secondary-path

```


- **number-paths** *number-of-paths* [**dual-sfm** *number-of-paths*]
- **queue-parameters**
 - **cbs** *percentage*
 - **no cbs**
 - **hi-priority-only** *percent-of-mbs*
 - **no hi-priority-only**
 - **mbs** *percentage*
 - **no mbs**

config

- **router**
 - **multicast-info-policy** *policy-name*
 - **no multicast-info-policy**
 - **pim**
 - **[no] mc-ecmp-balance**
 - **mc-ecmp-balance-hold** *minute*
 - **no mc-ecmp-balance-hold**

tools

- **perform**
 - **router**
 - **pim**
 - **mc-ecmp-rebalance** [*ecmp-opt-threshold*]

Show Commands

```

show
  — service
    — id service-id
      — host-tracking
        — saps [detail|statistics|summary|mcast-reporting-statistics]
        — saps sap sap-id [host ip-address] [detail|statistics|summary|mcast-reporting-statistics]
      — igmp-snooping
        — all
        — mrouters [detail]
        — mvr
        — port-db sap sap-id [detail]
        — port-db sap sap-id group grp-address
        — port-db sdp sdp-id:vc-id [detail]
        — port-db sdp sdp-id:vc-id group grp-address
        — proxy-db [detail]
        — proxy-db group grp-address
        — static [sap sap-id | sdp sdp-id:vc-id]
        — static [sap sap-id | sdp sdp-id:vc-id]
      — mfib brief
      — mfib [group grp-address]
      — mfib statistics [group grp-address]
      — mld-snooping
        — all
        — base
        — mrouters [detail]
        — mvr
        — port-db sap sap-id
        — port-db sap sap-id detail
        — port-db sap sap-id group grp-ipv6-address
        — port-db sdp sdp-id:vc-id
        — port-db sdp sdp-id:vc-id detail
        — port-db sdp sdp-id:vc-id group grp-ipv6-address
        — proxy-db [detail]
        — proxy-db group grp-ipv6-address
        — querier
        — static [sap sap-id | sdp sdp-id:vc-id]
        — statistics [sap sap-id | sdp sdp-id:vc-id]

show
  — router
    — pim
      — mc-ecmp-balance [detail]

show
  — mcast-management
    — bandwidth-policy [policy-name] [detail]
    — channel [router router-instance | vpls service-id] [mda slot[/mda]] [group ip-address
      [source ip-address]] [path path-type] [detail]
    — mcast-reporting-dest [mcast-reporting-dest-name]
    — mda [slot[/mda]] [path path-type]

show
  — router
    — igmp

```

- **group** [*grp-ip-address*]
- **group summary**
- **group-interface** [*fwd-service service-id*] [*ip-int-name*] [**detail**]
- **hosts** [**group** *grp-address*] [**detail**] [*fwd-service service-id*] [**grp-interface** *ip-int-name*]
- **hosts** [**host** *ip-address*] [**group** *grp-address*] [**detail**]
- **hosts summary**
- **interface** [*ip-int-name|ip-address*] [**group**] [*grp-ip-address*] [**detail**]
- **mcast-reporting-statistics** [*host*]
- **ssm-translate** [*interface-name*]
- **static** [*ip-int-name|ip-addr*]
- **statistics** [*ip-int-name|ip-address*]
- **statistics host** [*ip-address*]
- **status**
- **tunnel-interface**

Clear Commands

- clear
 - service
 - id
 - **igmp-snooping**
 - **port-db** **sap** *sap-id* [**group** *grp-address* [*source ip-address*]]
 - **port-db** **sdp** *sdp-id:vc-id* [**group** *grp-address* [*source ip-address*]]
 - **querier**
 - **querier** [**all** | **sap** *sap-id* | **sdp** *sdp-id:vc-id*]
 - **mfib**
 - **statistics** [**all** | **group** *grp-address*]
 - **mld-snooping**
 - **port-db** **sap** *sap-id* [**group** *grp-ipv6-address*]
 - **port-db** **sap** *sap-id* **group** *grp-ipv6-address* **source** *src-ipv6-address*
 - **port-db** **sdp** *sdp-id:vc-id* [**group** *grp-ipv6-address*]
 - **port-db** **sdp** *sdp-id:vc-id* **group** *grp-ipv6-address* **source** *src-ipv6-address*
 - **querier**
 - **statistics** **all**
 - **statistics** **sap** *sap-id*
 - **statistics** **sdp** *sdp-id:vc-id*

Debug Commands

- debug
 - **mcast-management**
 - [**no**] **mcast-reporting-dest** [*dest-name*]
 - [**no**] **igmp** [*host ip-address*] [**group** *grp-address*]
 - **service**
 - **id** *service-id*
 - **mld-snooping**
 - **detail-level** {**low**|**medium**|**high**}
 - **no detail-level**
 - [**no**] **mac** *ieee-address*

- **mode** {dropped-only|ingr-and-dropped|egr-ingr-and-dropped}
- **no mode**
- [**no**] **sap** *sap-id*
- [**no**] **sdp** *sdp-id:vc-id*